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PATENT COOPERATION TREATY

PCT

P.EC'D	2	7	APR	2001

WEO PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	T	- See Notifi	cation of Transmittal of International
International application No.	International filing date (day/month/year)		Priority date (day/month/year)
PCT/US99/25499 29 OCTOBER 1999 29 OCTOBER 1998			29 OCTOBER 1998
International Patent Classification (IPC) Please See Supplemental Sheet.	or national classification an	d IPC	
Applicant INCYTE PHARMACEUTICALS, INC	С.		
Examining Authority and is 2. This REPORT consists of a This report is also accompleen amended and are the	total of <u>5</u> sheets. panied by ANNEXES, i.e., e basis for this report and/or	ant according to sheets of the desc r sheets containing	ription, claims and/or drawings which have g rectifications made before this Authority.
,	on 607 of the Administrativ	ve Instructions w	nder the PCT).
These annexes consist of a tot	tal of <u>U</u> sheets.		
3. This report contains indication	s relating to the following	g items:	
I X Basis of the repor	rt		
II Priority			
III X Non-establishmer	nt of report with regard to	novelty, invent	ive step or industrial applicability
IV Lack of unity of	invention		
	t under Article 35(2) with a nations supporting such sta		inventive step or industrial applicability;
VI Certain documents	cited		
VII Certain defects in t	he international application	1	
VIII Certain observation	s on the international appl	ication	
			
Date of submission of the demand		Date of completion	of this report
17 MAY 2000		05 APRIL 200	1
Name and mailing address of the IPEA/ Commissioner of Patents and Tradem	1 1	uthorized officer	Bridgers
Box PCT Washington, D.C. 20231		OBERT LAN	IDSMAN for
Facsimile No. (703) 305-3230	Т	elephone No.	703) 308-0196

Form PCT/IPEA/409 (cover sheet) (July 1998)*

International application No.

PCT/US99/25499

L.	Basis o	f the report				
1. V	Vith regar	d to the elements of the interr	ational applicat	ion:*		
_		nternational application a				
_	≌ ₄	description:				
Ŀ		es1-53				or originally filed
		NONE				, as originally filed , filed with the demand
		· •				, filed with the demand
	page			, med with the let		
Б	X the	claims:				
ئا		s54-55				, as originally filed
						itement) under Article 19
		s NONE				, filed with the demand
	page	s NONE	, filed v	vith the letter of	<u> </u>	
_	_					
		lrawings:				
		s <u>1-22</u>				, as originally filed
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		equence listing part of the				
		s <u>1-7</u>				
		s NONE				
	page	s NONE		, filed with the letter	r oi	
<u></u>	the la	anguage of a translation for a translation of	the internation	onal application (under	Rule 48.3(b)).	
	the la or 55	-	nished for the	purposes of international	l preliminary exam	ination (under Rules 55.2 and
3 1	With regs	ard to any nucleotide and/o	r amino acid	sequence disclosed in	the international a	application, the international
	_	ry examination was carried		•		.pp
[3	conta	ined in the international a	application in	printed form.		
_	_			-	hla form	
닏	x filed together with the international application in computer readable form.					
furnished subsequently to this Authority in written form.						
L	furnished subsequently to this Authority in computer readable form.					
The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
		tatement that the information furnished.	recorded in	computer readable form i	s identical to the v	writen sequence listing has
4.	The	amendments have resulted	l in the canc	ellation of:		
	X	the description, pages	NONE			
	X	the claims, Nos.	NONE			
	x	the drawings, sheets/fig	NONE			
5.	This	report has been drawn as if (mendments had not been	made, since they l	have been considered to go
_	beyo	and the disclosure as filed, as	indicated in the	ie Supplemental Box (Ru	de 70.2(c)).**	
in	eplacemei	nt sheets which have been fur ort as "originally filed" and	nished to the re	ceiving Office in response	to an invitation un	der Article 14 are referred to n amendments (Rules 70.16
	•	r. cement sheet containing suc	h amendments	must be referred to und	ler item 1 and ans	nexed to this report.

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III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been and will not be examined in respect of:					
	the entire international application.				
X	claims Nos. <u>17, 18, 20</u>				
	because:				
	the said international application, or the said claim Nos. relate to the following subject matter which does not require international preliminary examination (specify).				
	the description, claims or drawings (indicate particular elements below) or said claims Nos are so unclear that no meaningful opinion could be formed (specify).				
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.				
X	no international search report has been established for said claims Nos. 17,18,20.				
2. A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:					
	the written form has not been furnished or does not comply with the standard.				
	the computer readable form has not been furnished or does not comply with the standard.				

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V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	statement					
	Novelty (N)	Claims	19	YES		
	• • •	Claims	1-16	NO		

Inventive Step (IS)

Claims 19

Claims 1-16

NO

Industrial Applicability (IA)

Claims 1-16 and 19

YES

Claims NONE

NO

2. citations and explanations (Rule 70.7)

Claims 1-16 lack novelty under PCT Article 35(2) as being anticipated by Yuasa et al. Yuasa et al. teach a substantially purified polypeptide of a fragment of SEQ ID NO:1 and 2 as well as an isolated polynucleotide fragments of SEQ ID NO:3 and 4 encoding these fragments. It would be inherent that Yuasa et al. also were in possession of the complement to said polynucleotide. Yuasa et al. also teach a method for detecting a polynucleotide in a sample by using hybridization probes which form complexes with the polynucleotides of the invention. RT-PCR was also used to amplify the polynucleotide of interest. Yuasa et al. also have produced recombinant polypeptides of the invention and have raised antibodies to these polypeptides.

Claims 1-16 lack novelty under PCT Article 35(2) as being anticipated by Kallin et al. Kallin et al. teach a substantially purified polypeptide of a fragment of SEQ ID NO:1 and 2 as well as an isolated polynucleotide fragments of SEQ ID NO:3 and 4 encoding these fragments. It would be inherent that Kallin et al. also were in possession of the complement to said polynucleotide. Kallin et al. also teach a method for detecting a polynucleotide in a sample by using hybridization probes which form complexes with the polynucleotides of the invention. The polynucleotides of interest were amplified in E. coli. Kallin et al. also have produced recombinant polypeptides of the invention and have raised antibodies to these polypeptides.

Claims 1-16 lack novelty under PCT Article 33(2) as being anticipated by Yu et al. Yu et al. teach a substantially purified polypeptide of a fragment of SEQ ID NO:1 and 2 as well as an isolated polynucleotide fragments of SEQ ID NO:3 and 4 encoding these fragments. It would be inherent that Yu et al. also were in possession of the complement to said polynucleotide. Yu et al. also teach a method for detecting a polynucleotide in a sample by using hybridization probes which form complexes with the polynucleotides of the invention. The polynucleotides of interest were amplified by PCR. Yu et al. also have produced recombinant polypeptides of the invention and have raised antibodies to these (Continued on Supplemental Sheet.)

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Supp	pleme	ental	Box
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(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

CLASSIFICATION:

The International Patent Classification (IPC) and/or the National classification are as listed below: IPC(7):C12Q 1/68; A01N 37/18, A61K 38/00; C07K 14/00, 16/00, 17/00, 2/00, 4/00, 5/00, 7/00, 1/00; C07H 21/04 and US C1.:435/6; 514/2; 530/300, 350, 387.1; 536/23.5

V. 2. REASONED STATEMENTS - CITATIONS AND EXPLANATIONS (Continued): polypeptides.

Claim 19 meets the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest a method of treating or preventing a disorder associated with decreased expression of TM4P activity.

Claims 1-16 and 19 meet the criteria set out in PCT Article 33(4) for industrial applicability.

In the Response to the Written Opinion, filed 23 February 2001, Applicants traversed the Examiner's objections. However, no arguments were presented, but Applicants state that they reserve the right to address these and other objections in the future.

	NEW	CITATIONS	
NONE			